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ABSTRACT

This module on constructing darts, one in a series on the single needle lockstitch sewing machine for student self-study, contains two sections. Each section includes the following parts: an introduction, directions, an objective, learning activities, student information, student self-check, check-out activities, and an instructor's final checklist. The sections cover the following topics: constructing straight and shaped darts and constructing double pointed darts. The material is illustrated with line drawings. (KC)

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THE SINGLE NEEDLE LOCKSTITCH MACHINE

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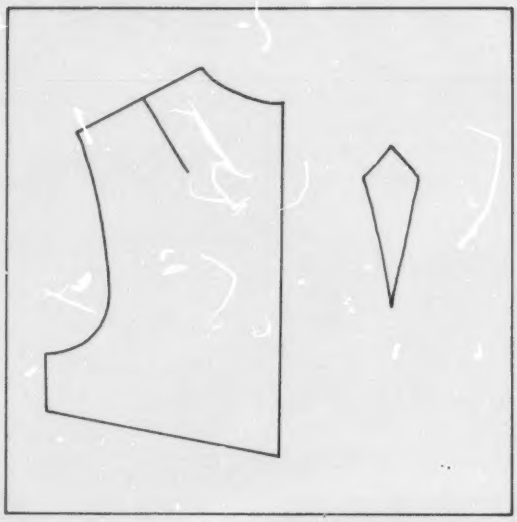
constructing
straight and shaped darts



CONSTRUCTING DARTS

(Straight and Shaped Darts)

INTRODUCTION

Darts are located in garments at points requiring shape and fullness. The correct construction of darts is essential for providing a finished look to a garment. In this module you will learn the location, use, and construction techniques for straight darts and shaped darts in the manufacture of garments.

DIRECTIONS

Read the Objective. If you think that you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activities. Begin the Learning Activities and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given marked material, locstitch machine, thread, scissors, and operation specifications, stitch a straight dart and a shaped dart. Darts must lie smooth and flat and be stitched evenly to a firm, smooth point. They must be free of puckers, be backstitched, and end at a point specified by the operation.

LEARNING ACTIVITIES

1. READ Student Information, LOCATION AND TYPES OF DARTS.
2. COMPLETE Student Self-Check, LOCATION AND TYPES OF DARTS.
3. READ Student Information, STEPS IN CONSTRUCTION OF A SHAPED DART.
4. READ Student Information, LOCATION AND CONSTRUCTION OF A STRAIGHT DART.

5. COMPLETE Student Self-Check, LOCATION AND CONSTRUCTION OF A STRAIGHT DART AND A SHAPED DART.

6. Turn to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

Location and Types of Darts

Shoulder and Neck Darts

Shoulder and neck darts are used in the front and back of garments. Darts may also be located in the back of the neck (Figure 1).

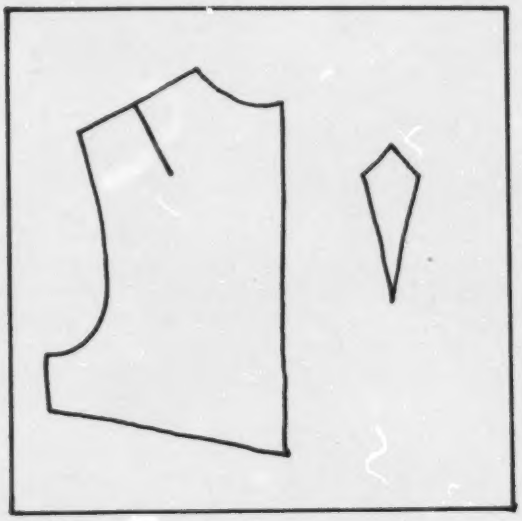


Figure 1

Bust and Armseye Darts

Bustline darts are used to provide fullness in garments (Figure 2).

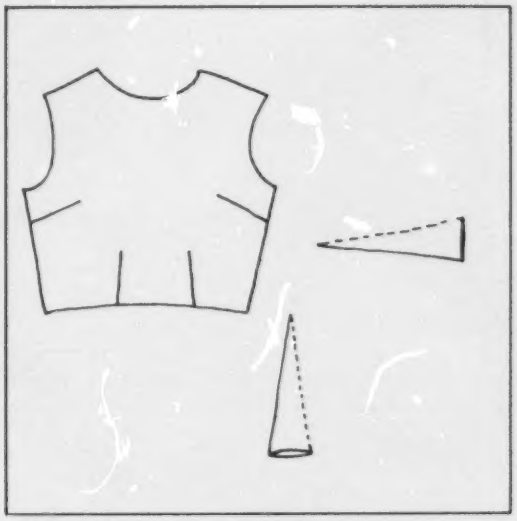


Figure 2

Darts may be located in the midriff to provide shape and allow for fullness (Figure 3).

Figure 3

Dresses

Shaped (curved or angular) darts are used to provide shape in a one-piece garment (Figure 4).

Figure 4

A semi-slanted dart is shown in Figure 5. This dart is usually large since it takes the place of two darts.

Figure 5

A bustline dart in the princess style is shown in Figure 6.

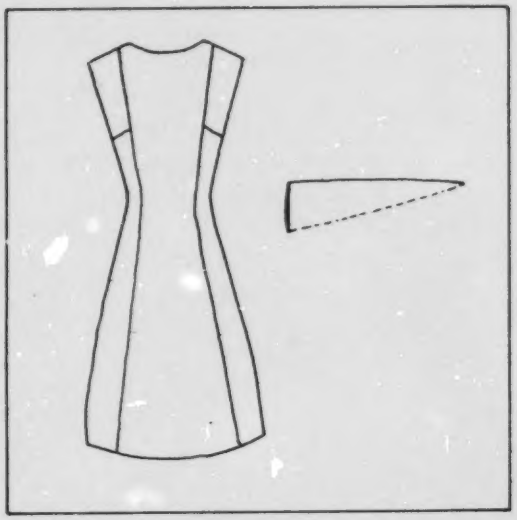


Figure 6

Waistline darts are used in skirts, pants, shorts, dresses, blouses and jackets for shaping at the waist (Figure 7).

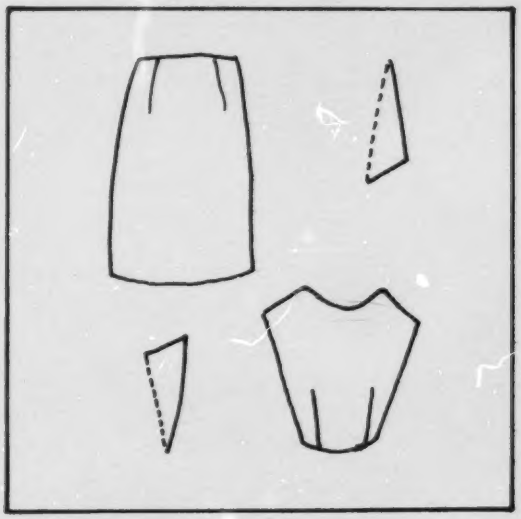


Figure 7

7

Sleeve Darts

Dart A in Figure 8 is used to provide fit in the elbow area. Dart B is used to raglan sleeves or at the top of the shoulders.

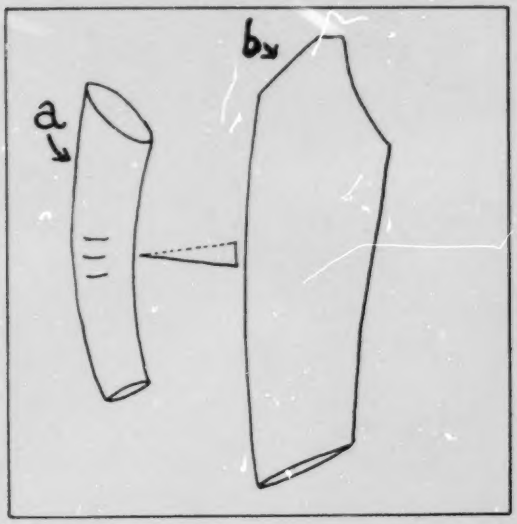


Figure 8

STUDENT SELF-CHECK

Location and Types of Darts

Write the answers to the following statements on a separate sheet of paper.

1. Shoulder and neck darts are used in the front and back of garments. (True or false)

2. Curved darts are used to provide shape. (True or false)

3. Angular and curved darts look alike. (True or false)

4. Darts are used to provide shape. (True or false)

5. A _____ dart is sometimes used to take the place of two darts.

STUDENT INFORMATION

Steps in Construction of a Shaped Dart

1. Fold material with right sides together and with markings at edge of fabric together and the mark at point of dart on the fold. In industry, placement of darts is identified by punching, marking, or notching the fabric.

2. Place material under presser foot at wide end of dart. For single pointed dart, backstitch as follows (Figure 9).

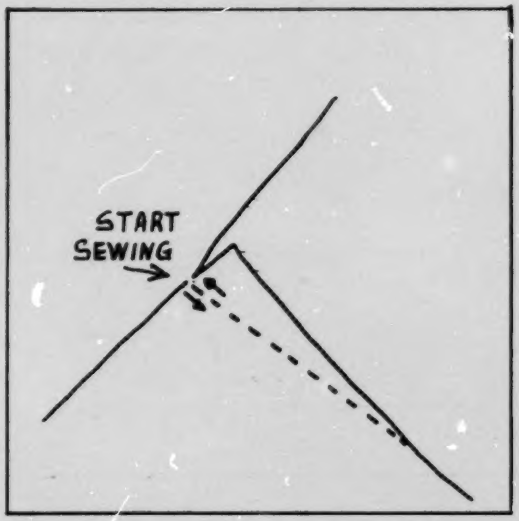


Figure 9

a. Begin stitching to a maximum of 5 stitches.
b. Without stopping machine, raise presser foot at the end of 4 or 5 stitches.
c. Pull fabric by hand in a reverse direction toward the operator. Stitches should be made exactly on top of first set.
d. As machine returns to first original stitch, lower presser foot.

3. Stitch from markings of fabric to pointed end of dart. Taper to nothing at the point and stitch the last few stitches along the fold. This procedure assures a smooth, flat point (Figure 10).

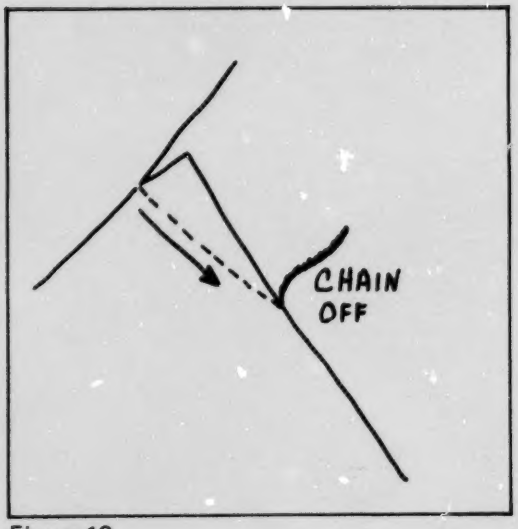


Figure 10

4. Secure threads by stitching a few extra stitches off the fabric (chaining off).

STUDENT INFORMATION

Location and Construction of a Straight Dart

A straight dart is similar to the shaped dart in its location on the garment. The straight dart is used when the pattern on the material is usually striped or plaid. This type of dart allows for the shape needed for fitting but does not break the pattern on the material. When darts are slanted to the hipline as shown in Figure 11 the construction of the dart causes the stripes to be uneven.

Figure 11

In Figure 12 the straight darts allow for the stripes to continue evenly.

Figure 12

Steps in Construction of a Straight Dart

1. Fold material with right sides together and with markings at edge of fabric together and the mark at point of dart on the fold. In industry, placement of darts is identified by punching or notching the fabric.
2. Place material under presser foot at wide end of dart. For single pointed dart, backstitch as follows.
   a. Begin stitching to a maximum of 5 stitches.
   b. Without stopping machine, raise presser foot at the end of 4 or 5 stitches.
   c. Pull fabric by hand in a reverse direction toward operator. Stitches should be made exactly on top of first set.
   d. As machine returns to first original stitch, lower presser foot.
3. Stitch from markings of fabric to pointed end of dart. Taper to nothing at the point and stitch the last few stitches along the fold. This procedure assures a smooth, flat point.
4. Secure threads by stitching a few extra stitches off the fabric.

STUDENT SELF-CHECK

Location and Construction of a Straight Dart and a Shaped Dart

Write the answers to the following statements on a separate sheet of paper.

1. Straight darts are used only on striped or plaid material. (True or false)
2. Shaped darts are constructed the same as straight darts. (True or false)
3. Straight darts are used only on skirts. (True or false)
4. Straight darts have a pointed end. (True or false)
5. The placement of darts is identified by punching, masking, or notching the fabric. (True or false)

CHECK-OUT ACTIVITIES

The statement below explains the activities you must be able to complete in order to finish this module. After you go through the activities, your instructor will rate your performance using the Instructor's Final Checklist, CONSTRUCTING STRAIGHT AND SHAPED DARTS.

Your instructor will provide you with marked material, a lockstitch machine, thread, scissors, and operation specifications. Stitch a straight dart and a shaped dart.

Student _____

Date _____

Instructor's Final Checklist

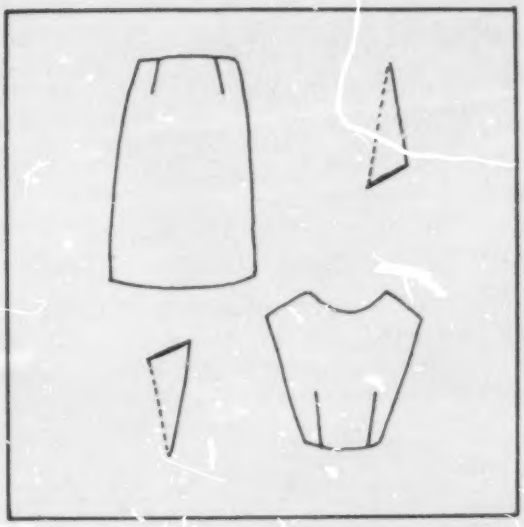
Check the student's performance in the following elements of constructing a straight dart and a shaped dart.

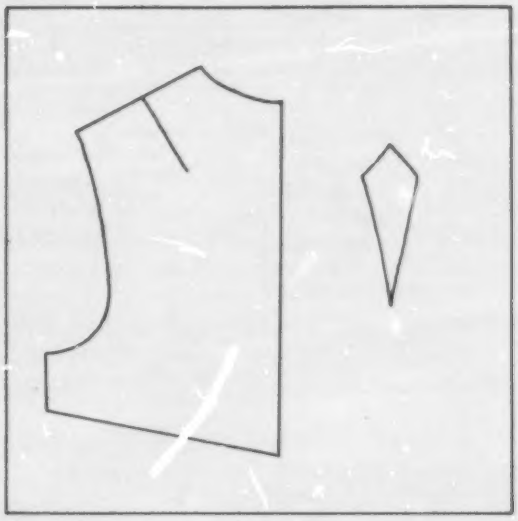
Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student:				
a. Shaped darts to lie smooth and flat.	( )	( )	( )	( )
b. Stitched the darts evenly to a firm, smooth point.	( )	( )	( )	( )
c. Stitched darts free of puckers.	( )	( )	( )	( )
d. Backstitched.	( )	( )	( )	( )
e. Had correct length as specified by operation.	( )	( )	( )	( )

constructing double-pointed darts





CONSTRUCTING DARTS

(A Double-Pointed Dart)

INTRODUCTION

Darts are located in garments at points requiring shape and fullness. The correct construction of darts is essential for providing a finished look to a garment. In this module you will learn the location, use, and construction techniques for darts in the manufacture of garments.

DIRECTIONS

Read the Objective. If you think that you can accomplish this Objective now, turn to the Check-Out Activity and follow the instructions.

If you feel you are not able to accomplish this Objective now, look at the Learning Activities. Begin the Learning Activities and as soon as you feel you are ready, turn to the Check-Out Activity and follow the instructions.

OBJECTIVE

Given marked material, lockstitch machine, thread, scissors, and operation specifications, stitch a double-pointed dart. Dart must lie smooth and flat and be stitched evenly to a firm, smooth point. It must also be free of puckers, be backstitched, and end at a point specified by the operation.

LEARNING ACTIVITIES

1. READ Student Information, STEPS IN CONSTRUCTION OF A DOUBLE-POINTED DART.
2. VIEW teacher demonstration.
3. COMPLETE Student Self-Check, LOCATION AND CONSTRUCTION OF A DOUBLE-POINTED DART.
4. TURN to the Check-Out Activity and follow the instructions.

STUDENT INFORMATION

Steps in Construction of a Double-Pointed Dart

1. Fold material with right sides together and with markings at edge of fabric together and the mark at point of dart on the fold. In industry, placement of darts is identified by punching or notching the fabric.
2. Place material under presser foot at pointed end of dart. For a double-pointed dart, stitch as follows (Figure 13).
   a. Begin stitching.
   b. Stitch to fullest point.

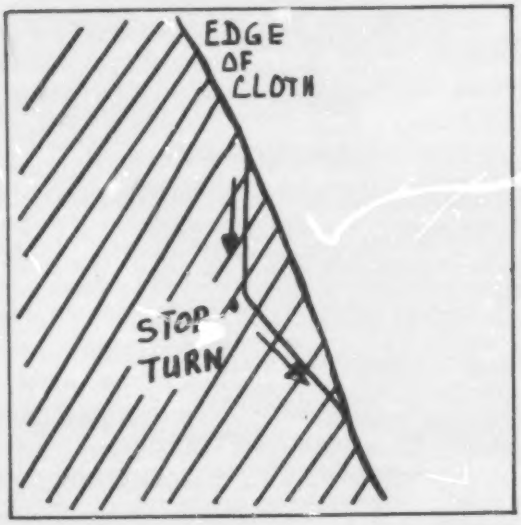


Figure 13

3. Stitch from markings at fullest point of fabric to pointed end of dart. Taper to nothing at the point and stitch the last few stitches along the fold. This procedure assures a smooth, flat point.
4. Secure threads by stitching a few extra stitches off the fabric.

Vertical or double-pointed darts are also called princess darts and are used for fitted garments. Darts may be located in the front and/or back of a garment (Figure 14).

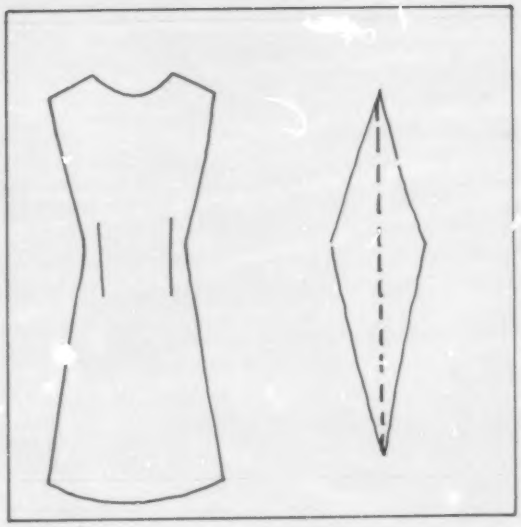


Figure 14

STUDENT SELF-CHECK

Location and Construction of a Double-Pointed Dart

Write the answers to the following statements on a separate sheet of paper.

1. Backstitching is allowed on a double-pointed dart. (True or false)
2. _____darts are used for princess style dresses. (True or false)
3. Vertical darts and double-pointed darts are constructed the same way. (True or false)
4. Double-pointed darts are used to provide _____ in the garment.

CHECK-OUT ACTIVITIES

The statement below explains the activities you must be able to complete in order to finish this module. After you go through the activities, your instructor will rate your performance using the Instructor's Final Checklist, CONSTRUCTING DARTS (A Double-Pointed Dart).

Your instructor will provide you with marked material, a lockstitch machine, thread, scissors, and operation specifications. Stitch a double-pointed dart.

Student _____

Date _____

Instructor's Final Checklist

Check the student's performance in the following elements of constructing darts (a double-pointed dart).

Place an X in the appropriate box indicating not accomplished, partially accomplished, or fully accomplished. If, because of special circumstances, the item was impossible to complete, place an X in the "Not Applicable" box.

Performance Level: All items must receive a rating of FULLY ACCOMPLISHED (or Not Applicable). If any items are rated Not Accomplished or Partially Accomplished, the student and instructor will discuss this and decide which learning activities must be repeated.

	Student Performance			
	Not Applicable	Not Accomplished	Partially Accomplished	Fully Accomplished
The student:				
a. Stitched a double-pointed dart to lie smooth and flat.	( )	( )	( )	( )
b. Stitched the dart evenly to a firm, smooth point.	( )	( )	( )	( )
c. Stitched dart free of puckers.	( )	( )	( )	( )
d. Backstitched.	( )	( )	( )	( )
e. Had correct length as specified by operation.	( )	( )	( )	( )